

ABSTRACT

A method and system for detecting the corners of a region in cluttered images. The initial data for the method of this invention includes an image of a region of interest. The edges interior to the region of interest are detected by an edge detection method. The detected edges are culled in order to obtain a reduced edge group, where the reduced edge group includes a number of points. A measure of corneriness is obtained for each one point from the reduced edge group. A number of candidate corner points are selected from the reduced edge group by applying a predetermined criterion to the measure of corneriness. The region corner points are identified from the candidate corner points based on a predetermined relationship, such as a distance, between each candidate corner point and characteristic edge points of the region of interest, such as edge centers and corners. The system implements the method of this invention.